

SACRAMENTO DISTRICT INSTRUCTIONS TO:
CEGS-02697

PART 1 GENERAL

REFERENCES

FEDERAL SPECIFICATIONS (FS) - Add:

FS GG-T-321 (Rev D; Am 2) Thermometers, Self-Indicating,
Liquid-in-Glass for Machinery and Piping
Systems

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) - Add:

ANSI B40.1 (1985) Gauges-Pressure Indicating Dial
Type-Elastic Element

SD-80, Operation and Maintenance Manuals

Line 10 - After "instructions shall include piping layout" add
"appurtenances"

Line 11 - Add the following to the end of last sentence "when
appropriate."

Justification for District change (Clarification)

PART 2 PRODUCTS

Condensate Return Pipes - NOTE

Delete ""PIPING SYSTEMS" and replace with "HEAT DISTRIBUTION
SYSTEMS (PREAPPROVED SYSTEMS)"

After paragraph PIPE SLEEVES AND ESCUTCHEONS add the following:

PRESSURE GAUGES

Pressure gauges shall conform to ANSI B40.1, style as required,
with a scale range from 0 to [150] [_____] psi and a minimum 4-1/2
inch diameter dial.

THERMOMETERS

Thermometers shall conform to FS GG-T-321, Type I, Class 3, with wells. Temperature range shall be suitable for the temperature range of the piping system provided. Thermometers shall be provided with separable corrosion-resistant steel sockets.

Justification for District change (Clarification)

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PART 3 EXECUTION

Add the following to the end of paragraph Pipe Supports:

All piping and attached valves shall be supported and braced to resist seismic loads as specified in SECTION: SEISMIC PROTECTION FOR MECHANICAL AND ELECTRICAL EQUIPMENT.

Justification for District change (Construction Quality Control and Clarification)

After paragraph PIPE GUIDE AND SUPPORT add the following:

THERMOMETERS AND/OR PRESSURE GAUGES

Thermometers and/or pressure gauges shall be provided in equipment or piping where indicated or specified and shall be installed not more than 7 feet above the operating floor or platform.

Temperature or pressure sensing locations higher than 7 feet above the floor or platform will require remote bulb temperature indicators or extended piping for pressure gauges. The thermometers and gauges shall have suitable ranges. On thermally insulated equipment or piping stand-off mounting brackets, bases, adapters or extended tubes shall be provided. These items shall provide clearance not less than the thickness of the insulation. These stand-off mounting items shall be integral with the thermometer and gauges or standard accessories of the manufacturer. Remote-type thermometers shall have sensing elements or thermal elements with capillaries, and for use in pipes shall have immersion-type sensing elements. Shut-off cocks shall be provided for all gauges.

Justification for District change (Clarification)

ADDITIONAL NOTES - Add the following:

NOTE C: The latest Strategic Air Command (SAC) policy requires all piping for central heating and cooling distribution systems to be installed below grade whenever practical, particularly in less industrialized areas of the Base. This can be accomplished with direct buried conduit systems or shallow concrete trench depending on supporting life-cycle cost data and/or soil classification.

Justification for District change (Requested by SAC)